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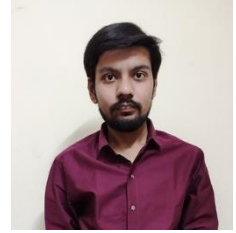
Professional Summary

I am a detail-oriented Embedded Software Engineer with robust experience in designing, developing, and debugging embedded systems. With a strong foundation in microcontroller programming and PCB design, I excel in problem-solving and collaborating with teams to achieve project goals efficiently.

Experience

ENGINEERING TECHNIQUE   Vadodara, Gujarat
Embedded Software Engineer   Sep 2023 – Present

- ❖ Designed and developed the Damboy-3D printer control motherboard.
- ❖ Executed full firmware development for the ProCure-UV curing box and Sparklean solar panel cleaning robot.
- ❖ Developed an RF signal interference system using BladeRF SDR as part of a defense communications project, focusing on signal detection, analysis and controlled blocking.
- ❖ Worked with various microcontrollers (AVR, STM32, ESP32 and others) to develop efficient embedded software solutions.

Education

Gujarat Technological University   June 2019 - June 2023
B.E in Electronics & Communication Engineering

Relevant Coursework: Embedded Systems, Microprocessor & Microcontroller, Digital Electronics, Digital Signal Processing, Internet of Things

Skills

- ❖ PCB Design: KiCAD, EasyEDA, Altium Designer
- ❖ Programming: C, Python
- ❖ PCB Testing: Digital Multimeter
- ❖ RF Testing: GNU Radio Companion, Gqrx
- ❖ Hardware: Atmega 2560, Raspberry Pi, ESP32, STM32, BladeRF
- ❖ Communication Protocols: SPI, I2C, UART

Projects

Arduino based fire extinguisher robot   Jan 2022-May 2022

- ❖ Developed an arduino based autonomous fire extinguisher robot which automatically detect & sense fire and extinguish it.
- ❖ Integrated water pump mechanism with precise control for efficient fire suppression.
- ❖ Implemented sensor array for accurate fire detection.